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# Department of Civil Engineering

Kakatiya Institute of Technology & Science, Warangal -15

Newsletter



Vol 2, Issue 2

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## Vision of the department

- The Vision of the department is to become a leading centre of excellence in producing quality human resource in civil engineering by developing a sustainable technical education system to meet the changing technological needs of the Country. The Department will make significant contributions to the economic development of the state, region and nation.

## Mission of the department

- To produce outstanding Civil Engineering graduates with highest ethics
- To impart quality education in civil engineering to raise satisfaction level of all stake holders.
- To serve society and the nation by providing professional civil engineering leadership to find solution to community, regional and global problems and accept new challenges in rapidly changing technology.

**Programme Educational Objectives (PEOs)** : The Programme Educational Objectives (PEOs) of the civil engineering program are designed to produce skilled engineers who are ready to contribute effectively to the civil engineering profession and are ready to handle the challenges of the profession. The Programme Educational Objectives (PEOs) are defined considering the opinion of all the stakeholders.

PEO1	Apply fundamental technical knowledge and skills to find creative solutions to challenges and problems in various areas of basic sciences and engineering.
PEO2	Able to analyze, design and use skills in order to formulate and solve civil engineering problems.
PEO3	To practice civil engineering in a responsible, professional and ethical manner to implement eco- friendly sustainable technologies for the benefit of industry and society.
PEO4	Able to take up higher education, engage in research and development in civil engineering and allied areas of science and technology

## Program Outcomes(POs) : Engineering Graduates will be able to

PO1	Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.	Engineering knowledge
PO2	Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.	Problem analysis
PO3	Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.	Design/development of solutions
PO4	Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.	Conduct investigations of complex problems
PO5	Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations	Modern tool usage
PO6	Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.	The engineer and society:
PO7	Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.	Environment and sustainability
PO8	Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.	Ethics
PO9	Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.	Individual and team work
PO10	Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.	Communication
PO11	Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments	Project management and finance
PO12	Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.	Life-long learning

## Program Specific Outcomes(PSOs) :

PSO1	Apply fundamental computational methods and elementary analytical techniques in sub-disciplines related to civil engineering.
PSO2	Design civil engineering structures, component or process to meet desired needs with appropriate consideration for the public health and safety, cultural, societal, sustainability and environmental considerations
PSO3	Appreciate professional and ethical responsibility concerning legal, contemporary, environmental & cultural issues and consequent responsibilities relevant to the professional engineering practices and norms of civil engineering practice code.
PSO4	Appreciate the role of research in civil engineering practice and recognize the need for and to engage in life-long learning in civil engineering and allied domains as relevant to rapidly changing technology.

“The strongest people aren’t always the people who win, but the people who don’t give up when they lose.”

### **FACULTY PUBLICATIONS**

**Andal Mudimby** published a paper on “Cementing efficiency of low calcium fly ash in fly ash concretes.” World Academy of Science, Engineering and Technology, International Journal of Civil, Architectural, Structural and Construction Engineering, Volume: 7, Issue: 12, 2013.

**Nikesh Thammishetti**, , “Ductile FRP System and Its Structural Applications”, The 5th Asia & Pacific Young Researchers & Graduates Symposium on Current Challenges in Structural Engineering, YRGS 2013, held at MNIT Jaipur, 15-16th Oct, 2013.

### **SPORTSMANSHIP**

G.Ravi Teja of II/IV represented KAKATIYA UNIVERSITY at Inter-University football tournament

<b>NAME</b>	<b>EVENT</b>	<b>POSITION</b>
G. Ravi Teja (II/IV)	800mts Run	II
G. Ravi Teja (II/IV)	1500 mts Run	II
G.Anil (II/IV)	High Jump	II
D.Meenakshi (II/IV)	Javelin Throw	II
Manoj Kumar (IV/IV)	Carroms	III

### **Students Track Records**

The following students have been selected in the following companies

10016T0060	PADAMATI APARNA	TCS
10016T0020	MOHAMMED MUMTAZ ALI	Saint-Gobain
10016T0055	SUDI SRIHARI	Saint-Gobain

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## **EVENTS ORGANIZED BY THE DEPARTMENT**

### **CIVIGNAN '13-14**

A Two Day National Level Student Technical Symposium had organized by the department in 2013-14 on February 22<sup>nd</sup> and 23<sup>rd</sup>. The symposium is hosted keeping in mind the demands of the present day competitive world. The symposium aims not only the creative and enthusiastic zeal in the students but also in different activities & events like Bridge Design and Fabrication, Model Making, Adventure Survey etc.



## **WORDS OF “CEA”**

It is the culture of CIVIL department to organize different workshops and seminars with different delegates as a part of Civil Engineering Activities (CEA) to bring awareness among the budding engineers of recent advancements in civil arena. Some of them include:

- Technical discussion on Effect of Modern Construction Practices on Environment
- Career opportunities for Civil Engineers by JH Academy director Sri Ram Jagadish
- Recent Advances in Cement Concrete and latest developments in concrete
- Technical discussion on Effect of Modern Construction Practices on Environment
- Career opportunities for Civil Engineers by JH Academy director Sri Ram



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## **LATEST UPDATES**

In this academic year the department has procured universal testing machine of 1000 kN capacity, field Core Cutter and hot air oven. This 100T machine is capable of testing steel bars under axial tension, concrete prisms under different types of loading namely axial tension, compression, bending and double shear.



The 100T TUE-CN type universal testing machine was recently brought under MODROBS. It is designed for ascertaining the strength and deformation of all kinds of materials such as steel and other material in form of rods, sheets, wires, tubes, chains etc. Plastic woods can also be tested.



The field Core Cutter was brought to our laboratory under institute funds and it is used for cutting and grinding cylindrical rock specimens.



This is a hot air oven is used to cure geo polymer concrete specimens. The capacity of the oven is 500°C.